## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

10/550,410
IFWP.
1/9/07

## ENTERED



**IFWP** 

RAW SEQUENCE LISTING DATE: 01/09/2007 PATENT APPLICATION: US/10/550,410 TIME: 09:35:43

Input Set : A:\3022-109.ST25.txt

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3 <110> APPLICANT: Burnie, James
         Matthews, Ruth C.
 4
 6 <120> TITLE OF INVENTION: Treatment of Infection Due to Clostridium Difficile
 8 <130> FILE REFERENCE: 3022-109
10 <140> CURRENT APPLICATION NUMBER: 10/550,410
11 <141> CURRENT FILING DATE: 2005-09-23
13 <150> PRIOR APPLICATION NUMBER: PCT/GB2004/001383
14 <151> PRIOR FILING DATE: 2004-03-25
16 <150> PRIOR APPLICATION NUMBER: GB0306782.4
17 <151> PRIOR FILING DATE: 2003-03-25
19 <160> NUMBER OF SEQ ID NOS: 8
21 <170> SOFTWARE: PatentIn version 3.3
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26 <213> ORGANISM: Clostridium difficile
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30 <221> NAME/KEY: CDS
31 <222> LOCATION: (40)..(972)
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                                                                          54
35
                                              Met Lys Ile Leu Val
36
38 ttt gga gca cgc gat tat gaa gaa cca gta ata aaa aaa tgg tct gaa
                                                                         102
39 Phe Gly Ala Arg Asp Tyr Glu Glu Pro Val Ile Lys Lys Trp Ser Glu
42 gaa cat aag gat gtt caa gtg gat att tat cct gaa aac atg act gaa
                                                                         150
43 Glu His Lys Asp Val Gln Val Asp Ile Tyr Pro Glu Asn Met Thr Glu
46 gaa aat gta gtt aaa gct aaa ggg tat gat ggt ata tct ata caa caa
                                                                         198
47 Glu Asn Val Val Lys Ala Lys Gly Tyr Asp Gly Ile Ser Ile Gln Gln
48
           40
                               45
50 act aac tat ata gat aat cct tat att tat gaa act tta aaa gat gct
                                                                         246
51 Thr Asn Tyr Ile Asp Asn Pro Tyr Ile Tyr Glu Thr Leu Lys Asp Ala
                           60
                                                65
54 ggg gtt aaa gtt ata gct tca aga act gca ggg gtt gac atg ata cat
                                                                         294
55 Gly Val Lys Val Ile Ala Ser Arg Thr Ala Gly Val Asp Met Ile His
                       75
                                           80
58 ttt gat tta gtt aat gaa aat gga ctt atc gtt aca aac gtt cct gct
                                                                         342
59 Phe Asp Leu Val Asn Glu Asn Gly Leu Ile Val Thr Asn Val Pro Ala
60
                                       95
62 tat tca cct aat gca ata gct gaa tta gct gtt act caa gct atg aac
                                                                         390
63 Tyr Ser Pro Asn Ala Ile Ala Glu Leu Ala Val Thr Gln Ala Met Asn
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Input Set : A:\3022-109.ST25.txt

64	109	=		110			115				
			ata ata			ata tat		ant.	438		
66 ctt tta 67 Leu Leu									430		
	120	s IIII PIO	125	гур гу	э пув ч	130	GIU GIY	Asp			
68		. ~~+ ~~~			. ~~~ .		+-+ -++		100		
70 tac cgt									486		
71 Tyr Arg	Tip IIe	e Ara Gru		GIY In		_	ser lie	Thr			
72 135			140			145		<b></b> -	<b>5</b> 24		
7.4 gtt ggt									534		
75 Val Gly	vai iie		GIA TAR	TIE GI		rnr ser	Ala Lys				
76 150		155			160			165			
78 ttc aaa									582		
79 Phe Lys	GIA res	_	Asn Val		-	Asp Gin	-	Asn			
80		170		17			180				
82 agt gat		_			_				630		
83 Ser Asp		_	Leu Thr		s Asp S	Ser Leu	_	Leu			
84	185			190			195				
86 cta aaa	_						_		678		
87 Leu Lys	Glu Ala	a Asp Val	Ile Thr	Leu Hi	s Thr E	Pro Leu	Leu Glu	Gly			
88	200		205			210					
90 aca aaa	cat ato	g ata aat	aaa gat	act cta	a gct a	ata atg	aag gat	gga	726		
91 Thr Lys	His Met	: Ile Asn	Lys Asp	Thr Let	ı Ala 1	Ile Met	Lys Asp	Gly			
92 215			220		2	225					
94 gct tac	ata gta	a aat act	gcc cgt	ggt ggt	tta a	att gat	aca ggg	gat	774		
95 Ala Tyr	Ile Val	l Asn Thr	Ala Arg	Gly Gly	Leu l	Ile Asp	Thr Gly	Asp			
96 230		235			240			245			
98 tta ata	gaa gca	a cta gac	tca gga	aaa at	aga	gct gct	gcc ctt	gat	822		
99 Leu Ile		_					_	_			
100		250	-	_	55		26	_			
102 aca tt	t qaa ad	t qaa qq	a ttg tt	c tta aa	ac aaa	aaa atq	aat cc	t qqa	870		
103 Thr Ph	_		-			_					
104	26		4	270	4	2	275	4			
106 gaa tt	a act ga	ac cca ga	a ata aa	t aaa ci	t ctt	tct ato	gaa ca	a gtt	918		
107 Glu Le											
108	280		28			290					
110 ata tt		at cat ct			rt agt			a aat	966		
111 Ile Ph									,,,,		
112 29			300	·		305	01	u 11011			
114 ata gt			500			303			975		
114 dta gt									515		
116 310	•										
119 <210>	מבט דף א	īO. 2					•				
120 <211>											
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122 <213 > ORGANISM: CIOSCITCIUM CITTICITE 124 <400 > SEQUENCE: 2											
			- 01 23	- Nest -	<b>F</b>	a1 a1	D **	7 77-			
126 Met Ly	я тте те		e GIY AI		1	GIU GIU		T TIE			
127 1	- <b>m</b> -	5		10			15	_			
130 Lys Ly			u Hıs Ly		ai Gln	Val Asp		r Pro			
131	20	)		25			30				

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Input Set : A:\3022-109.ST25.txt

134	Glu	Asn	Met	Thr	Glu	Glu	Asn	Val	Val	Lvs	Ala	Lvs	Glv	Tvr	Asp	Glv	
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	Ile	Ser		Gln	Gln	Thr	Asn		Ile	Asp	Asn	Pro	Tyr	Ile	Tyr	Glu	
139		50					55	•		-		60			Ī		
142	Thr	Leu	Lys	Asp	Ala	Gly	Val	Lys	Val	Ile	Ala	Ser	Arg	Thr	Ala	Gly	
143						70		-			75					80	
146	Val	Asp	Met	Ile	His	Phe	Asp	Leu	Val	Asn	Glu	Asn	Gly	Leu	Ile	Val	
147					85					90					95		
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151				100					105					110			
154	Thr	Gln	Ala	Met	Asn	Leu	Leu	Arg	Lys	Thr	Pro	Leu	Val	Lys	Lys	Lys	
155			115					120					125		•		
			Glu	Gly	Asp	Tyr		Trp	Ile	Ala	Glu		Leu	Gly	Thr	Glu	
159		130			_		135		_			140			<b>-</b>		
		Arg	Ser	Ile	Thr		Gly	Val	Ile	Gly		Gly	Lys	Ile	Gly		
	145			_	_	150	_		•		155	_				160	
	Thr	Ser	Ala	Lys	Leu	Phe	Lys	Gly	Leu	_	Ala	Asn	Val	Ile		Tyr	
167		~1	_	_	165			-		170			m1		175	•	
	Asp	Gin	Tyr		Asn	ser	Asp	Leu		Asp	тте	Leu	Thr	_	гàг	Asp	
171	C	7	a1	180	T 011	T 011	T	<b>~1</b>	185	7. ~~	17-1	т1.	mb~	190	11:0	The	
	ser	Leu	195	Asp	Leu	ьeu	ьys	200	Ala	Asp	vai	ire	205	ьeu	HIS	Inr	
175	Dro	T 011		C111	Gly	Thr	Tara		Mot	Tla	λan	T 1/C		Thr	T 011	Nla	
179	PIO	210	пеп	Giu	GIY	1111	215	uis	Met	116	ASII	220	Asp	1111	цец	AIA	
	Tle		LVS	Asn	Gly	Δla		Tle	Val	Asn	Thr		Ara	Glv	Glv	Len	
	225	HEC	цуз	ASP	Gry	230	- 7 -	110	Val	ASII	235	niu	9	O <sub>1</sub>	O <sub>1</sub>	240	
		Asp	Thr	Glv	Asp		Ile	Glu	Ala	Leu		Ser	Glv	Lvs	Ile		
187		T.L.		0-1	245					250			1	-1-	255	5	
	Ala	Ala	Ala	Leu	Asp	Thr	Phe	Glu	Thr		Gly	Leu	Phe	Leu		Lys	
191				260	•				265		•			270		-	
194	Lys	Met	Asn	Pro	Gly	Glu	Leu	Thr	Asp	Pro	Glu	Ile	Asn	Lys	Leu	Leu	
195			275		_			280					285				
198	Ser	Met	Glu	Gln	Val	Ile	Phe	Thr	His	His	Leu	Gly	Phe	Phe	Thr	Ser	
199		290					295					300					
202	Thr	Ala	Ile	Glu	Asn	Ile	Val										
203	305					310											
206	<210	0> SE	EQ II	ON C	: 3												
		l> LE			)												
		2> T)															
	9 <213> ORGANISM: Clostridium difficile																
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		3> Or 0> SE				OCTIC	A T UIII	GIII	LICI.	re							
					4 caato												21
		osacca O> SE				Jy C											21
227	~21(		רה דד	, MO.													

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Input Set : A:\3022-109.ST25.txt

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VERIFICATION SUMMARY

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